

Craig Huneke

List of Publications by Year in descending order

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96
papers

3,799
citations

136950

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59
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96
all docs

96
docs citations

96
times ranked

428
citing authors

#	ARTICLE	IF	CITATIONS
1	Tight Closure, Invariant Theory, and the Briançon-Skoda Theorem. <i>Journal of the American Mathematical Society</i> , 1990, 3, 31.	3.9	290
2	Direct methods for primary decomposition. <i>Inventiones Mathematicae</i> , 1992, 110, 207-235.	2.5	172
3	Hilbert functions and symbolic powers.. <i>Michigan Mathematical Journal</i> , 1987, 34, 293.	0.4	163
4	Comparison of symbolic and ordinary powers of ideals. <i>Inventiones Mathematicae</i> , 2002, 147, 349-369.	2.5	159
5	The theory of d -sequences and powers of ideals. <i>Advances in Mathematics</i> , 1982, 46, 249-279.	1.1	146
6	\mathbb{Q} -regularity, test elements, and smooth base change. <i>Transactions of the American Mathematical Society</i> , 1994, 346, 1-62.	0.9	139
7	Linkage and the Koszul Homology of Ideals. <i>American Journal of Mathematics</i> , 1982, 104, 1043.	1.1	119
8	Infinite Integral Extensions and big Cohen-Macaulay Algebras. <i>Annals of Mathematics</i> , 1992, 135, 53.	4.2	119
9	On the symmetric and Rees algebra of an ideal generated by a d -sequence. <i>Journal of Algebra</i> , 1980, 62, 268-275.	0.7	116
10	Tight closure, invariant theory, and the Briançon-Skoda theorem. <i>Journal of the American Mathematical Society</i> , 1990, 3, 31-116.	3.9	108
11	Two theorems about maximal Cohen-Macaulay modules. <i>Mathematische Annalen</i> , 2002, 324, 391-404.	1.4	103
12	Bounds on the regularity and projective dimension of ideals associated to graphs. <i>Journal of Algebraic Combinatorics</i> , 2013, 38, 37-55.	0.8	98
13	Tensor products of modules and the rigidity of Tor. <i>Mathematische Annalen</i> , 1994, 299, 449-476.	1.4	96
14	Cohen-Macaulay Rees algebras and their specialization. <i>Journal of Algebra</i> , 1983, 81, 202-224.	0.7	95
15	Cofiniteness and vanishing of local cohomology modules. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1991, 110, 421-429.	0.4	95
16	The Structure of Linkage. <i>Annals of Mathematics</i> , 1987, 126, 277.	4.2	93
17	Birational extensions in dimension two and integrally closed ideals. <i>Journal of Algebra</i> , 1988, 115, 481-500.	0.7	88
18	Uniform bounds in noetherian rings. <i>Inventiones Mathematicae</i> , 1992, 107, 203-223.	2.5	83

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19	Strongly Cohen-Macaulay schemes and residual intersections. Transactions of the American Mathematical Society, 1983, 277, 739-763.	0.9	72
20	The primary components of and integral closures of ideals in 3-dimensional regular local rings. Mathematische Annalen, 1986, 275, 617-635.	1.4	69
21	Divisor Class Groups and Deformations. American Journal of Mathematics, 1985, 107, 1265.	1.1	67
22	Tight closure and strong F-regularity. Mémoires De La Société Mathématique De France, 1989, 1, 119-133.	1.4	66
23	F-Regularity, Test Elements, and Smooth Base Change. Transactions of the American Mathematical Society, 1994, 346, 1.	0.9	65
24	Powers of Ideals Having Small Analytic Deviation. American Journal of Mathematics, 1992, 114, 367.	1.1	62
25	Complete Ideals in Two-Dimensional Regular Local Rings. Mathematical Sciences Research Institute Publications, 1989, , 325-338.	0.3	48
26	Lectures on the Geometry of Syzygies. , 2004, , 115-152.		45
27	Symbolic Powers of Ideals. Springer Proceedings in Mathematics and Statistics, 2018, , 387-432.	0.2	45
28	A criterion for spots. Kyoto Journal of Mathematics, 1986, 26, .	0.3	44
29	On the finite generation of symbolic blow-ups. Mathematische Zeitschrift, 1982, 179, 465-472.	0.9	40
30	An improved Briançon-Skoda theorem with applications to the Cohen-Macaulayness of Rees algebras. Mathematische Annalen, 1993, 297, 343-369.	1.4	39
31	On a conjecture of Auslander and Reiten. Journal of Algebra, 2004, 275, 781-790.	0.7	37
32	Symbolic powers of prime ideals and special graded algebras. Communications in Algebra, 1981, 9, 339-366.	0.6	35
33	Tight closure and elements of small order in integral extensions. Journal of Pure and Applied Algebra, 1991, 71, 233-247.	0.6	34
34	On the integral closure of ideals. Manuscripta Mathematica, 1998, 95, 331-347.	0.6	32
35	Absolute integral closure in positive characteristic. Advances in Mathematics, 2007, 210, 498-504.	1.1	31
36	Determinantal ideals of linear type. Archiv Der Mathematik, 1986, 47, 324-329.	0.5	29

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37	Algebraic linkage. <i>Duke Mathematical Journal</i> , 1988, 56, 415.	1.5	29
38	The Koszul homology of an ideal. <i>Advances in Mathematics</i> , 1985, 56, 295-318.	1.1	28
39	Rees algebras of ideals having small analytic deviation. <i>Transactions of the American Mathematical Society</i> , 1993, 339, 373-402.	0.9	27
40	Powers of ideals generated by weak d -sequences. <i>Journal of Algebra</i> , 1981, 68, 471-509.	0.7	26
41	Vanishing Theorems for Complete Intersections. <i>Journal of Algebra</i> , 2001, 238, 684-702.	0.7	24
42	On the core of ideals. <i>Compositio Mathematica</i> , 2005, 141, 1-18.	0.8	24
43	Residual intersections.. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1988, 1988, 1-20.	0.9	22
44	Localization of tight closure and modules of finite phantom projective dimension.. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1993, 1993, 67-114.	0.9	22
45	On the integral closure of ideals. <i>Manuscripta Mathematica</i> , 1998, 95, 331-347.	0.6	20
46	Tight Closure, Parameter Ideals, and Geometry. , 1998, , 187-239.		20
47	Uniform equivalence of symbolic and adic topologies. <i>Illinois Journal of Mathematics</i> , 2009, 53, .	0.1	19
48	Integral closure of ideals and annihilators of homology. <i>Lecture Notes in Pure and Applied Mathematics</i> , 2005, , 33-48.	0.1	18
49	Hilbert's Kunz Multiplicity and the F-Signature. , 2013, , 485-525.		18
50	A theorem of Briançon-Skoda type for regular local rings containing a field. <i>Proceedings of the American Mathematical Society</i> , 1996, 124, 707-713.	0.8	17
51	Fine behavior of symbolic powers of ideals. <i>Illinois Journal of Mathematics</i> , 2007, 51, .	0.1	17
52	Tight closure and the Kodaira Vanishing Theorem.. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1997, 1997, 127-152.	0.9	16
53	Liaison of monomial ideals. <i>Bulletin of the London Mathematical Society</i> , 2007, 39, 384-392.	0.8	16
54	Symbolic Powers of Ideals Defining F-pure and Strongly F-regular Rings. <i>International Mathematics Research Notices</i> , 2019, 2019, 2999-3014.	1.0	14

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55	On the support of local cohomology. <i>Journal of Algebra</i> , 2009, 322, 3194-3211.	0.7	13
56	Vanishing of Ext, cluster tilting modules and finite global dimension of endomorphism rings. <i>American Journal of Mathematics</i> , 2013, 135, 561-578.	1.1	13
57	Expected resurgences and symbolic powers of ideals. <i>Journal of the London Mathematical Society</i> , 2020, 102, 453-469.	1.0	13
58	Absolute integral closures are big Cohen-Macaulay algebras in characteristic p . <i>Bulletin of the American Mathematical Society</i> , 1991, 24, 137-143.	1.5	13
59	The projective dimension of codimension two algebras presented by quadrics. <i>Journal of Algebra</i> , 2013, 393, 170-186.	0.7	12
60	A criterion for intersection multiplicity one. <i>Nagoya Mathematical Journal</i> , 1985, 100, 49-63.	0.8	11
61	Local properties of licci ideals. <i>Mathematische Zeitschrift</i> , 1992, 211, 129-154.	0.9	11
62	An Informal Introduction to Multiplier Ideals. , 2004, , 87-114.		11
63	Uniform symbolic topologies and finite extensions. <i>Journal of Pure and Applied Algebra</i> , 2015, 219, 543-550.	0.6	10
64	Symbolic squares in regular local rings. <i>Mathematische Zeitschrift</i> , 1998, 229, 31-44.	0.9	9
65	The saturation of Frobenius powers of ideals. <i>Communications in Algebra</i> , 2000, 28, 5563-5572.	0.6	9
66	Correction to "Tensor products of modules and the rigidity of Tor", <i>Math. Annalen</i> , 299 (1994), 449-476. <i>Mathematische Annalen</i> , 2007, 338, 291-293.	1.4	9
67	Bounds on the Hilbert-Kunz multiplicity. <i>Nagoya Mathematical Journal</i> , 2012, 205, 149-165.	0.8	9
68	The arithmetic perfection of Buchsbaum-Eisenbud varieties and generic modules of projective dimension two. <i>Transactions of the American Mathematical Society</i> , 1981, 265, 211-211.	0.9	9
69	Tight closure and strong test ideals. <i>Journal of Pure and Applied Algebra</i> , 1997, 122, 243-250.	0.6	8
70	Special tight closure. <i>Nagoya Mathematical Journal</i> , 2003, 170, 175-183.	0.8	8
71	Almost complete intersections and factorial rings. <i>Journal of Algebra</i> , 1981, 71, 179-188.	0.7	7
72	Criteria for Complete Intersections. <i>Journal of the London Mathematical Society</i> , 1985, s2-32, 19-30.	1.0	7

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73	Minimal linkage and the Gorenstein locus of an ideal. Nagoya Mathematical Journal, 1988, 109, 159-167.	0.8	7
74	Reduction numbers, Rees algebras and Pfaffian ideals. Journal of Pure and Applied Algebra, 1995, 102, 1-15.	0.6	7
75	Local rings of countable Cohen-Macaulay type. Proceedings of the American Mathematical Society, 2003, 131, 3003-3007.	0.8	7
76	Order ideals and a generalized Krull height theorem. Mathematische Annalen, 2004, 330, 417-439.	1.4	7
77	Uniform symbolic topologies in abelian extensions. Transactions of the American Mathematical Society, 2019, 372, 1735-1750.	0.9	6
78	Desingularizations and the Uniform Artin-Rees Theorem. Journal of the London Mathematical Society, 2000, 62, 740-756.	1.0	5
79	F-rational rings and the integral closures of ideals. Michigan Mathematical Journal, 2001, 49, 3.	0.4	5
80	Tight Closure Theory and Characteristic p Methods. , 2004, , 181-210.		5
81	A finiteness property of infinite resolutions. Journal of Pure and Applied Algebra, 2005, 201, 284-294.	0.6	5
82	Quasilength, latent regular sequences, and content of local cohomology. Journal of Algebra, 2009, 322, 3170-3193.	0.7	5
83	Multiplicity bounds in graded rings. Kyoto Journal of Mathematics, 2011, 51, .	0.3	5
84	Rigid Ideals in Gorenstein Rings of Dimension One. Acta Mathematica Vietnamica, 2019, 44, 31-49.	0.4	5
85	A generalization of an inequality of Lech relating multiplicity and colength*. Communications in Algebra, 2019, 47, 2436-2449.	0.6	5
86	A cancellation theorem for ideals. Journal of Pure and Applied Algebra, 2000, 152, 123-132.	0.6	4
87	Fitting ideals and finite projective dimension. Mathematical Proceedings of the Cambridge Philosophical Society, 2005, 138, 41-54.	0.4	4
88	Residual intersections and the number of equations defining projective varieties. Communications in Algebra, 1995, 23, 2345-2376.	0.6	3
89	The height of ideals and regular sequences. Manuscripta Mathematica, 1997, 93, 137-142.	0.6	3
90	Iterated socles and integral dependence in regular rings. Transactions of the American Mathematical Society, 2017, 370, 53-72.	0.9	3

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91	On The Structure Of Gorenstein Ideals Of Deviation Two. Resultate Der Mathematik, 1996, 29, 90-99.	0.2	2
92	Residual intersections of Licci ideals are Glicci. Michigan Mathematical Journal, 2012, 61, .	0.4	2
93	3-standardness of the maximal ideal. Journal of Pure and Applied Algebra, 2011, 215, 2674-2683.	0.6	1
94	Torsion in differentials and Berger's conjecture. Research in Mathematical Sciences, 2021, 8, 1.	1.0	1
95	Bounds on the Hilbert-Kunz multiplicity. Nagoya Mathematical Journal, 2012, 205, 149-165.	0.8	1
96	Examples of Commutative Rings. By Harry C. Hutchins. American Mathematical Monthly, 1985, 92, 300-301.	0.3	0